ABSTRACT OF THE DISCLOSURE

Methods and apparatus for sealing a safety valve within a tubular that the safety valve is designed to be landed and set in are disclosed. The valve includes a seal assembly having a seal on the valve that is acted on by a first piston disposed on a first side of the seal and/or a second piston disposed on a second side of the seal. Wellbore fluid pressure acts on the first piston when the valve is closed, thereby moving the first piston to force the seal into sealing contact with an inside surface of the tubular. When the safety valve is actuated open, fluid pressure from a control line acts on the second piston and moves the second piston to force the seal into sealing contact with the inside surface of the tubular. The seal may include a plurality of chevron seals on each side of a sealing element.